PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTHOR	ITY			REC'D 151	MAR 2005
To:]	PC'	-WIPO	PCT
Cullen & Co GPO Box 1074 BRISBANE QLD 4001		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
		· , · ·	(PCT Rule 4	3bis.1)	
		Date of mailing (day/month/year) 0 8 MAR 2005			
Applicant's or agent's file reference 030483PC		FOR FURTHER ACTION See paragraph 2 below			:
International application No. PCT/AU2004/001821			Priority date (day/month/year) 8 January 2004		
International Patent Classification (IPC) of		ation and IPC			
Int. Cl. ⁷ F01N 3/038, 3/10, 3/20; I	301D 53/94	•			
Applicant SAVE THE WORLD AIR, INC	C et al	'. 			
1. This opinion contains indications rel	ating to the following it	ems:			
X Box No. I Basis of the opini	oń			•	. ,
Box No. II Priority		•			
Box No. III Non-establishmer	nt of opinion with regard to	novelty, inventive step	and industrial app	plicability	
X Box No. IV Lack of unity of it	nvention	,			
Box No. V Reasoned stateme citations and expl					cability;
X Box No. VI Certain document	s cited .				
Box No. VII Certain defects in	the international application	on .			
X Box No. VIII Certain observation	ons on the international app	olication			
2. FURTHER ACTION					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					
written reply together, where appropria	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA		•			
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the IPEA/AU		Authorized Officer			
AUSTRALIAN PATENT OFFICE		DD TIME		•	
PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au		D.R. LUM Telephone No. (02) 6283 2544			
Facsimile No. (02) 6285 3929		i cichione 140. (02)	UZOJ ZJ44		

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Bo	x No. I	Basis of the opinion
1.	With regar	I to the language, this opinion has been established on the basis of the international application in the language in is filed, unless otherwise indicated under this item.
	the fo	pinion has been established on the basis of a translation from the original language into llowing language , which is the language of a translation furnished for the purposes of ational search (under Rules 12.3 and 23.1(b)).
2.	With regar	I to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the rention, this opinion has been established on the basis of:
	a. type of	material
	. 🗆	sequence listing
		able(s) related to the sequence listing
	b: format	of material .
		n written format
•	i	a computer readable form
	c. time of	filing/furnishing
		ontained in the international application as filed.
	. 🔲 1	led together with the international application in computer readable form.
		urnished subsequently to this Authority for the purposes of search.
3.	filed	ition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been r furnished, the required statements that the information in the subsequent or additional copies is identical to that application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional	comments:
	•	
•		
	•	

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Box	No. IV	Lack of unity of invention
1.	In re	sponse to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
		paid additional fees
		paid additional fees under protest
		not paid additional fees
2.	X This appli	Authority found that the requirement of unity of invention is not complied with and chose not to invite the cant to pay additional fees.
3.	This Author	rity considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
	comp	lied with
•	X not co	omplied with for the following reasons:
interi does	national ap	al Preliminary Report on Patentability (Chapter II) has been drawn up in respect of the entire plication but the International Preliminary Examining Authority is of the opinion that the application to comply with the requirements of unity of invention as set forth in the PCT regulations (Article 34(3),).
The s	Claims that the	oups of invention are: 1-10 are directed to a device to improve the working of an inline catalytic converter. It is considered device comprises a particular profile comprising a plurality or recesses or cavities to facilitate improve orption comprises a first "special technical feature".
2.	consider position	1, 11-16 are directed to a device to improve the working of an inline catalytic converter. It is red that device comprising a valve which is operable between an open and a closed or partially closed and located downstream from the catalytic converter to increase the resident time of the exhaust gas the catalytic converter comprises a second "special technical feature".
nven of cla	tive feature	e not so linked as to form a single general inventive concept, that is, they do not have any common es, which define a contribution over the prior art. The common concept linking together these groups general broad feature of claim 1. However this concept is not novel in the light of all the documents national Search Report. Therefore these claims lack unity a posteriori.
. Co	onsequently,	this opinion has been established in respect of the following parts of the international application:
	X all par	
•	the par	rts relating to claims Nos.
		

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				02/1102001/001021	
Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement	:				
. N	ovelty (N)	Claims 2-10		YES	
		Claims 1, 11-16		NO	
Inventive step (IS)	ventive step (IS)	Claims 2-10	٠	YES	
1		Claims 1, 11-16		NO	
In	dustrial applicability (IA)	Claims 1-16		YES	
		Claims		NO	

2. Citations and explanations:

The following documents identified in the International Search Report have been considered for the purposes of this report:

- D1 JP 9-79032 A (CALSONIC CORP)
- D2 GB 2334305 A (FORD GLOBAL TECHNOLOGIES, INC.)
- D3 WO 2002/068807 A1 (MITSUBISHI JIDOSHA KOGYO KABUSHIKI KAISHA)
- D4 US 4727796 A (DERKACH)
- D5 US 5355673 A (STERLING et al)

Novelty (N) and Inventive Step-Claims 1, 11-16

The invention as defined by claims 1, 11-16 is not novel in light of the disclosure in D1-D5, for example, D2 provides a pressure regulating valve which is deflected by the mass flow of exhaust gases and consequently will raise the temperature of the exhaust gases and ultimately the catalytic converter, re page 4 line 11- page 5 line 2.

As all the features are disclosed, the invention as claimed lacks novelty and hence an inventive step.

Attention is also drawn to Box VI regarding the novelty aspects of claims 1-3.

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Box No. VI Certain docume	ents cited	:	_
1. Certain published documents (Rules 43bis.1 and 70.10)		
Application No. Patent No	Publication date (day/month/year)	Filing date (<u>(day/month/year</u>)	Priority date (valid claim) (day/month/year)
P,X US 6737027 B1	18 May 2004	9 September 1999	9 September 1999
		•	
	•		
Novelty & Inventive Step Claim	ıs 1-3		
US 6737027 discloses a convert lines 50-60	er with end rings 30 includ	ing discs with apertures (figur	es 2 and 3) and also column
	,		
2. Non-written disclosures (Rules	43bis.1 and 70.9)		
Kind of non-written disclosur			Date of written disclosure ring to non-written disclosure
:		· · · · · · · · · · · · · · · · · · ·	(day/month/year)
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Вох No. VIII	Certain observations on the international applicati	ion
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The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- 1. Claim 1 is not supported by the description in that it is considered to be very broad in scope as it purports to claim all devices that will affect flow or disturb the laminar flow of exhaust gases and will include within its scope a silencer or exhaust pipe extensions or weather flap valves as these will add a positive pressure to the outlet exhaust system and hence delay the time for exhaust gases to exit from the engine and thus improve the transfer of heat from the exhaust gases to the catalytic converter.
- 2. Claim 2 is unclear with regard to "to improve heat absorption" line 10 as it is indeterminate if the device or the catalytic converter is being referred to. Note that in claim 1, it is the catalytic converter which is being heated, also in the second invention, claims 11-16, the device is such the catalytic converter is being heated and on pages 3 line 10 page 4, it is the device per se which increases in temperature.